

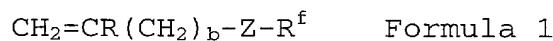
WHAT IS CLAIMED IS:

1. A curable composition comprising a compound (A) having at least one active energy ray curable polymerizable functional group, a fluorine-containing copolymer (B) obtained by (1) copolymerizing a polymerizable monomer (a) having a polyfluoroalkyl group and a polymerizable monomer (b) having a photo-curable functional group, or (2) introducing a photo-curable functional group into a fluorine-containing copolymer (D) 10 obtained by copolymerizing a polymerizable monomer (a) having a polyfluoroalkyl group and a polymerizable monomer (d) having a group capable of introducing a photo-curable functional group, and a photopolymerization initiator (C).

15 2. The curable composition according to Claim 1, which contains from 0.01 to 20 parts by mass of the fluorine-containing copolymer (B) and from 0.01 to 20 parts by mass of the photopolymerization initiator (C), per 100 parts by mass of the compound (A).

20 3. The curable composition according to Claim 1, wherein the compound (A) is a compound having at least one (meth)acryloyl group as the active energy ray curable polymerizable functional group.

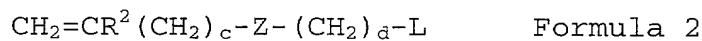
25 4. The curable composition according to Claim 1, wherein the polymerizable monomer (a) is a compound of the formula 1:



wherein R is a hydrogen atom or a C₁₋₄ alkyl group, b is an integer of from 0 to 6, Z is a single bond or a group selected from the group consisting of -CH₂-, -O-, -COO-, -CONH-, -NHCO- and -OCO-, and R^f is a C₂₋₄₀

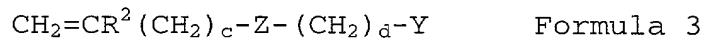
5 polyfluoroalkyl group or a C₂₋₄₀ polyfluoroalkenyl group, provided that at least one hydrogen atom in such a group may be substituted by a hydroxyl group or a halogen atom, and an etheric oxygen atom or a thioetheric sulfur atom may be inserted between a carbon-carbon bond.

10 5. The curable composition according to Claim 1, wherein the polymerizable monomer (b) is a compound of the formula 2:



15 wherein R² is a hydrogen atom or a C₁₋₄ alkyl group, each of c and d which are independent of each other, is an integer of from 0 to 6, Z is a single bond or a group selected from the group consisting of -CH₂-, -O-, -COO-, -CONH-, -NHCO- and -OCO-, and L is a photo-curable functional group having no thermal polymerizability.

20 6. The curable composition according to Claim 1, wherein the polymerizable monomer (d) is a compound of the formula 3:



25 wherein R² is a hydrogen atom or a C₁₋₄ alkyl group, each of c and d which are independent of each other, is an integer of from 0 to 6, Z is a single bond or a group selected from the group consisting of -CH₂-, -O-, -COO-,

-CONH-, -NHCO- and -OCO-, and Y is a group having a group capable of introducing a photo-curable functional group.

7. A cured coating film formed by the curable composition as defined in Claim 1.

5 8. A coated substrate comprising a substrate and the cured coating film as defined in Claim 7 formed on at least one side of the substrate.

9. The coated substrate according to Claim 8, wherein the substrate is a photomask.